Ekam Ghotra

Madison, WI 53703 | San Ramon, CA 94582
eghotra@wisc.edu | (952)-454-3741 | linkedin.com/in/ekamghotra | github.com/ekamghotra

Experience

Incoming AI Research Intern Sep 2024 - Dec 2024
Observo AI *Remote*

Data Analysis + Architecture Intern Jun 2024 – Aug 2024
Comcast Co. *Livermore, CA*

- Utilized advanced SQL querying techniques on Microsoft & Oracle servers to streamline data management
- Developed Python scripts for automation of data manipulation tasks, increasing overall data analysis efficiency
- Leveraged Tableau to visualize data-driven insights and trends, presenting findings to to V-Suite leadership

Software Dev Lead + Project Manager Jan 2024 – Current
CodeForGood Student Organization *Madison, WI*

- Led Frontend Development of the organization's main web page using React.JS, utilizing Bootstrap for CSS styling
- Helped engineer Backend functionality, utilizing SQL and MongoDB for the organizations data needs

E-Commerce Software Developer Dec 2019 – Jun 2024
CampusKix *Champaign-Urbana, IL*

- Developed an intelligent finance tracking dashboard, capable of providing real-time insight into product specific profitability, resulting in a 15% increase in per-product profit
- Designed a Full-Stack E-Commerce web application, contributing to a 50% increase in return customers
- Engineered purchase automation scripts to aid purchasing power, leading to a 200+% in product throughput

Data Science Intern Jun 2022 – Jul 2022
Manus Bio Inc. *Augusta, GA*

- Parsed DNA fingerprinting data in Python and R for genetic trait improvement and detection of novel genetic sequences for use in commercial/industrial bio-alternatives

Projects

Full Stack E-Commerce Site with Intelligent Finance Tracking Oct – Dec 2023

- Developed E-Commerce site using **Next.JS**, **React** for frontend development, and **Tailwind CSS** for styling
- Implemented backend functionality with **Prism ORM**, interfacing with **MySQL** for data management
- Integrated with a intelligent sales/finance dashboard, enhancing site administration and enabling users to increase profits through intelligent product analysis, yielding an average 15% increase in profit

Machine Learning Enhanced Fitness Tracker for Advanced Workout Analysis May – Jun 2023

- Developed fitness tracker using **Python**, integrating accelerometer and gyroscope data for accurate barbell exercise classification
- Implemented data analysis techniques (**outlier detection**, **low-pass filtering**, **PCA**) to refine sensor data
- Utilized machine learning algorithms for predictive modeling, enhancing the tracker's performance assessments and personal workout recommendations

Education

University of Wisconsin - Madison Madison, WI
BS Computer Science + Data Science, Minor in Economic Analytics *Expected Graduation, May 2026*

- Concentration: Algorithmic Development and Mathematical Modeling for ML applications
- Relevant Course Topics: OOP, Data Structures & Algorithms, Artificial Intelligence, Discrete Math, Data Modeling, Linear Algebra, Computer Architecture, Data Systems, Econometrics, Intermediate Microeconomic Theory

Technical Skills

Languages: Java, Python, C++, C, R, JavaScript, SQL, HTML/CSS, Assembly
Tools: VSCode, MatLab, IntelliJ, Eclipse, RStudio, Tableau, AWS, Google Cloud, Azure, MongoDB, PrismORM
Frameworks/Libraries: Next.JS, React.JS, TensorFlow, Node.JS, JavaFX, PyTorch, ScikitLearn, Keras, Pandas